

PUB-NO: WO00200770A1
 DOCUMENT-IDENTIFIER: WO 2007070 A1
 TITLE: METHOD FOR MEASURING OF EDEMA
 PUBN-DATE: October 17, 2002

WO 0200770
 PCT/EP02/00234
 2/3

INVENTOR-INFORMATION:
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 ALANEN, ESKO FI
 LAHTINEN, AULIS TAPANI FI
 NUUTINEN, JOUNI FI

ASSIGNEE-INFORMATION:
 NAME COUNTRY
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 ALANEN ESKO FI
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 NUUTINEN JOUNI FI

APPL-NO: FI00200234
 APPL-DATE: March 21, 2002

PRIORITY-DATA: FI20010601A (March 23, 2001)

INT-CL (IPC): A61B005/053
 EUR-CL (EPC): A61B005/05

ABSTRACT:
 CHG DATE=20021203 STATUS=N>The invention relates to a method for measuring tissue edema. By a method in accordance with the invention an electromagnetic probe (24) is placed on the skin, and the capacitance of the probe is proportional to the dielectric constant of the skin and subcutaneous fat, which

| Document ID | Kind Codes | Source | Issue Date | Pages | Type |
|---------------------|------------|---------|------------|-------|--------|
| 1. JP 62156582 A | | JPO | 19870711 | 4 | DETec |
| 2. JP 61086662 A | | JPO | 19860502 | 4 | APPAR |
| 3. WO 2007070 A1 | | EPO | 20021017 | 16 | METHOD |
| 4. WO 20020718 A1 | | EPO | 20020718 | | ELECT |
| 5. US 20020109497 A | | DERWENT | 20020815 | | Elect |
| 6. JP 09233877 A | | DERWENT | 19960913 | | Elect |
| 7. EP 492392 A | | DERWENT | 19920701 | | Eddy |

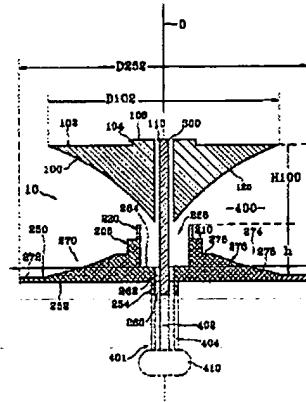
FIG. 2

| | |
|--|---------------------------------|
| PUB-NO: | WO002056418A1 |
| DOCUMENT-IDENTIFIER: | WO 2056418 A1 |
| TITLE: | ELECTROMAGNETIC PROBE |
| PUBN-DATE: | July 18, 2002 |
| INVENTOR-INFORMATION: | |
| NAME | COUNTRY |
| BRACHAT, PATRICE | N/A |
| DEVILLERS, FREDERIC | N/A |
| RATAJCZAK, PHILIPPE | N/A |
| BILLS, RAYMOND | N/A |
| ASSIGNEE-INFORMATION: | |
| NAME | COUNTRY |
| FRANCE TELECOM | FR |
| APPL-NO: | FR00200072 |
| APPL-DATE: | January 10, 2002 |
| PRIORITY-DATA: | FR00100390A (January 12, 2001) |
| INT-CL (IPC): | H01Q013/04, H01Q021/20 |
| ABSTRACT: | |
| <p>The invention concerns an electromagnetic probe characterised in that it comprises at least an assembly including in combination: a coaxial feeder link (401), a ground plane (250) connected to the outer sheath (404) of the coaxial drive connection; a reflecting cone (100) arranged opposite the ground plane (250), and configured to define an impedance at least substantially constant along its profile; and a dielectric medium (400) interposed at least partly between the reflecting cone (100) and the ground plane (250).</p> | |

| Details | | | | | | | <input checked="" type="checkbox"/> Text | <input type="checkbox"/> Image | <input type="checkbox"/> HTML | <input type="checkbox"/> FULL | <input type="checkbox"/> |
|--------------------|------|-------|---------|------------|-------|--|--|--------------------------------|-------------------------------|-------------------------------|--------------------------|
| Document ID | Kind | Codes | Source | Issue Date | Pages | | | | | | |
| 1 JP 62156582 A | | | JPO | 19870711 | 4 | | DETREC | | | | |
| 2 JP 61086662 A | | | JPO | 19860502 | 4 | | APPAR | | | | |
| 3 WO 20080770 A1 | | | EPO | 20021017 | 16 | | METHO | | | | |
| 4 WO 2056418 A1 | | | EPO | 20020716 | 31 | | ELSECW | | | | |
| 5 US 20020109497 A | | | DERWENT | 20020815 | | | Elect | | | | |
| 6 JP 08233877 A | | | DERWENT | 19960913 | | | Elect | | | | |
| 7 EP 492392 A | | | DERWENT | 19920701 | | | Eddy | | | | |
| 8 EP 51018 A | | | DERWENT | 19820505 | | | Elect | | | | |

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|--|---|
| (13) DEMANDE INTERNATIONALE PUBLIÉE EN VERTU DU TRAITÉ DE COOPÉRATION EN MATIÈRE DE BREVETS (PCT) | |
| (19) Organisations Mondiales de la Propriété Intellectuelle Bureau International | |
| (43) Date de la publication internationale 15 juillet 2003 (18.07.2003) | (10) Numéro de publication internationale WO 02/056418 A1 |
| (31) Classification internationale des brevets¹ : HDIQ 13/04, 21/20 | (71) Déposant : FRANCE TELECOM [FR/FR]; 6, place d'Aléxandrie, F-75105 Paris (FR). |
| (21) Numéro de la demande internationale : PCT/FR2002/00072 | (72) Inventeur(s) : BRACHAT, Pierre; Les Jardins du Chêne, Les Jemps, 25 Avenue de Flury, F-06200 Nice (FR). |
| (22) Date de dépôt international : 10 janvier 2002 (10.01.2002) | (73) DÉVILLERS, Frédéric; 51 Boulevard Louis Pasteur, F-06200 Nice (FR); RAZACKAR, Philippe; Bureau Bertrand, 65 Avenue Berthelot, F-06200 Nice (FR); Raymond, Guy; Cap Varin, 15 Avenue Villemain, F-06160 Grasse (Cap-Saint-Vincent) (FR). |
| (25) Langue de dépôt : français | |
| (26) Langue de publication : français | |
| (38) Dates relatives à la priorité : 01/03/2000 | (74) Mandataire : MARTIN, Jean-Jacques ex; Cabinet Legrand, 20, rue de Chazelles, F-75347 Paris Cedex 15 (FR). |
| 13 juillet 2001 (12.01.2001) FR | |

(This is not the page estimate.)



(87) **Amériques :** La invention concerne un module électronique comprenant une électrosondeuse à puce caractérisée par le fait qu'elle comporte au moins un cristal de quartz et un condensateur, une ligne d'émission (40), un fil de type coaxial, un jeu de fils (120) et (130) et une puce émettrice (40) de laquelle l'émission d'impulsions est déclenchée par l'intermédiaire d'un état de tension d'angle constant, un obturateur (100) placé en regard du plan de fil (120), et un module de réception (140) qui comprend pour délivrer ses impulsions un module de démodulation (150) et un module d'amplification (160) placé en regard du plan de fil (120) et de la puce émettrice (40).

(88) **Amériques :** La invention concerne un module électronique comprenant une électrosondeuse à puce caractérisée par le fait qu'elle comporte au moins un cristal de quartz et un condensateur, une ligne d'émission (40), un fil de type coaxial, un jeu de fils (120) et (130) et une puce émettrice (40) de laquelle l'émission d'impulsions est déclenchée par l'intermédiaire d'un état de tension d'angle constant, un obturateur (100) placé en regard du plan de fil (120), et un module de réception (140) qui comprend pour délivrer ses impulsions un module de démodulation (150) et un module d'amplification (160) placé en regard du plan de fil (120) et de la puce émettrice (40).

FIG. 4, is a diagram of the phase law across the aperture of the antenna of FIG. 1,

FIG. 5, is a view of the radiation diagrams of an antenna according to the invention and of a conventional discone antenna, and

FIG. 6, is a graph showing the width of the diagram in elevation as a function of the ratio between the length of the discs and the wavelength.

DETAILED DESCRIPTION:

(1) DESCRIPTION OF THE INVENTION

(2) FIG. 1 shows an omnidirectional antenna according to the invention. It comprises two truncated metal cones 1 and 2 which are attached to a waveguide 3 of circular cross-section which forms the feed guide and which is closed off at one end by a short-circuit CC. The intersections between the truncated cones 1 and 2 and the waveguide 3 are at two cross-sectional planes 4 and 5 which have spaced between them a considerable length of the guide 3. Two discs 6 and 7 of dielectric material are attached to the truncated cones 1 and 2 at the points where these cross-sectional planes 4 and 5 are situated so that the bases of the truncated cones and the surfaces of the discs of dielectric material are parallel and lie perpendicular to the feed waveguide 3. The part 8 of the feed waveguide contains an array of equidistant slots of which only three, 9, 10, and 11, can be seen in the Figure.

(3) In the view shown in FIG. 1, these slots are parallel to the axis of the guide 3. Their orientation may however be different and the slots may be vertical, horizontal or oblique, depending on whether the polarisation of the wave which is used is horizontal, vertical or circular. The mode of excitation would also change, being TM₀₁ in the case of the Figure and TE₀₁ in the case

Details Text Image HTML FULL

| | Document ID | Kind Codes | Source | Issue Date | Pages | |
|----|--------------|------------|--------|------------|-------|--------|
| 16 | US 4692770 A | | USPAT | 19870908 | 7 | Vehic |
| | | | | 19880924 | 7 | Colla |
| | | | | 19900930 | 9 | Multi |
| | | | | 19910909 | 7 | Secur |
| | | | | 19920917 | 7 | Mobil |
| | | | | 19930906 | 7 | Consid |
| | | | | 19940913 | 6 | POLAR |

Details Text Image HTML FULL

Figures: 1

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Dates: 0819 0809 0306 0813

Subjects: 100 200

Keywords: 100 200

Notes: 100 200

Comments: 100 200

Links: 100 200

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US-PAT-NO: 3987456

DOCUMENT-IDENTIFIER: US 3987456 A

TITLE: Wide relative frequency band and reduced size-to-wavelength ratio antenna

----- KWIC -----

US Reference Patent Number - URPN (3):
2613107

U.S. Patent Oct. 19, 1976 Sheet 6 of 6 3,987,456

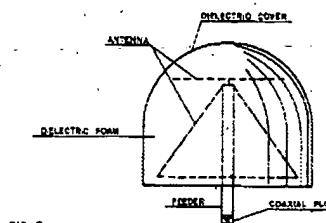


FIG. 6

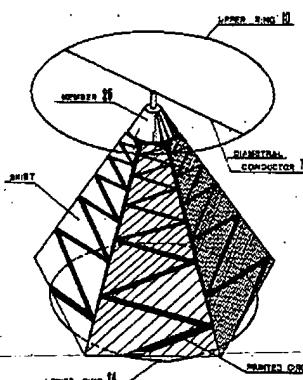


FIG. 7

Details | Text | Image | HTML | KWIC

| | Document ID | Kind Codes | Source | Issue Date | Pages | |
|---|--------------|------------|--------|------------|-------|-------|
| 3 | US 5608416 A | | USPAT | 19970304 | 12 | Porta |
| 4 | US 4851859 A | | USPAT | 19890725 | 9 | Tunab |
| 5 | US 4691209 A | | USPAT | 19870901 | 12 | Wideb |
| 6 | US 3289163 B | | USPAT | 19870407 | 3 | Anten |
| 7 | US 4608572 A | | USPAT | 19860826 | 18 | Broad |
| 8 | US 4352109 A | | USPAT | 19820928 | 9 | End s |
| | US 3987456 A | | USPAT | 19761019 | 10 | Wide |
| 9 | US 3919710 A | | USPAT | 19751111 | 15 | Tunab |

Details | Text | Image | HTML

US-PAT-NO: 3919710
 DOCUMENT-IDENTIFIER: US 3919710 A
 TITLE: Turnstile and flared cone UHF antenna

----- KWIC -----

US Reference Patent Number - URPN (1):
 3619107

U.S. Patent Nov. 11, 1975

3,919,710

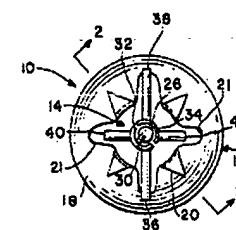


FIG. 1

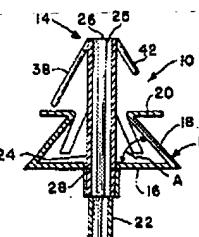


FIG. 2

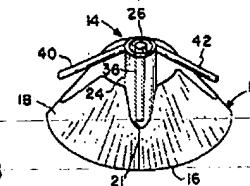


FIG. 3

| | Document ID | Kind Codes | Source | Issue Date | Pages | Links |
|-----|--------------|------------|--------|------------|-------|-------|
| 4. | US 4851859 A | | USPAT | 19890725 | 9 | Tunab |
| 5. | US 4691209 A | | USPAT | 19870901 | 12 | Wideb |
| 6. | US D289163 S | | USPAT | 19870407 | 3 | Anten |
| 7. | US 4608572 A | | USPAT | 19860826 | 18 | Broad |
| 8. | US 4352109 A | | USPAT | 19820928 | 9 | End s |
| 9. | US 3987456 A | | USPAT | 19761019 | 10 | Wide |
| 10. | US 3919710 A | | USPAT | 19751111 | 5 | Turns |
| | US 3787865 A | | USPAT | 19740122 | 10 | DT500 |

[REDACTED]

U.S-PAT-NO: 6084551
 DOCUMENT-IDENTIFIER: US 6084551 A
 TITLE: Electromagnetic probe for the detection of e-field and h-field radiation
 -----KWC-----
 US Reference Patent Number - URPN (3): 3611862

U.S. Patent Jul. 4, 2000 Sheet 5 of 8 6,084,551

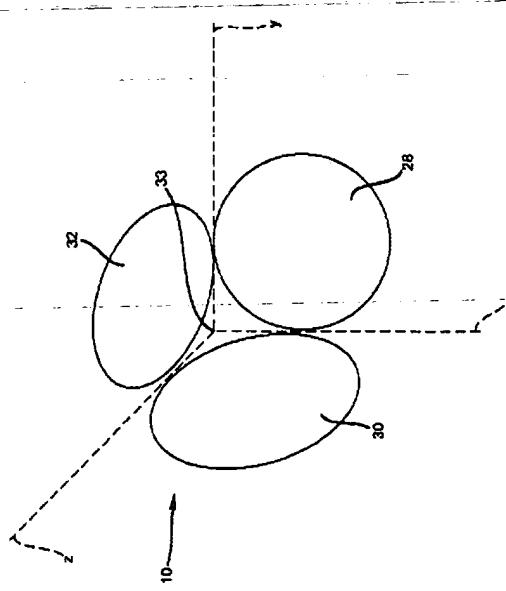


FIG. 6

| | Document ID | Kind Codes | Source | Issue Date | Pages | METHOD |
|---|---------------|------------|--------|------------|-------|------------|
| 1 | US-6456070-B1 | | USPAT | 20020924 | 16 | METHOD |
| 2 | US 6084551 A | | USPAT | 20000704 | 13 | RE-GRANTED |
| 3 | US 3721900-A | | USPAT | 19730320 | 5 | MICROWAVE |

US-PAT-NO: 3721900
 DOCUMENT-IDENTIFIER: US 3721900 A
 TITLE: MICROWAVE DETECTION INSTRUMENT AND ANTENNA THEREFOR

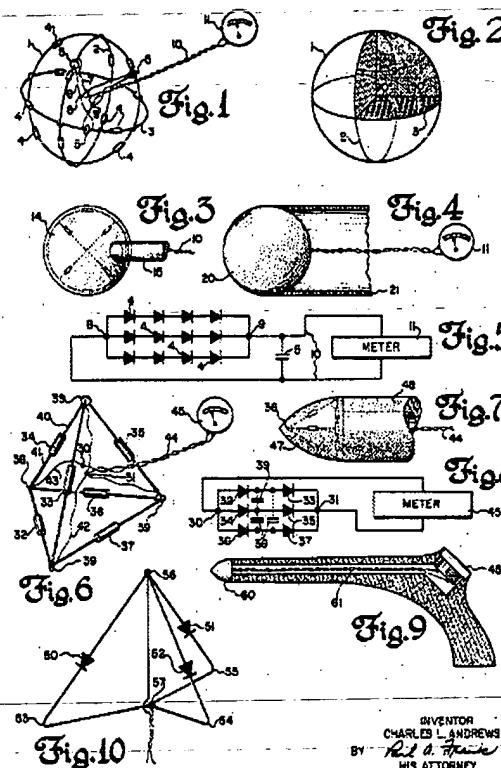
PATENTED MAR 20 1973

3,721,900

----- KWIC -----

US Reference Patent Number - URPN (6):
3,611,362

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| Document ID | Filed Codes | Source | Issue Date | Pages | |
| 1. US 6456070 B1 | | USPAT | 20020924 | 16 | METHOD |
| 2. US 6084551 A | | USPAT | 20000704 | 13 | Electrc |
| 3. US 3721900 A | | USPAT | 19730320 | 15 | MICROW |



INVENTOR
CHARLES L. ANDREWS
BY *R. L. Andrews*
HIS ATTORNEY

| | | | |
|---|--|---------------|----------|
| US-PAT-NO: | 5714888 | | |
| DOCUMENT-IDENTIFIER: | US 5714888 A | | |
| **See image for Certificate of Correction** | | | |
| TITLE: | Method and apparatus for testing electronic circuitry in a manufacturing environment | | |
| DATE-ISSUED: | February 3, 1998 | | |
| INVENTOR-INFORMATION: | | | |
| NAME | CITY | STATE | ZIP CODE |
| COUNTRY | | | |
| Naujoks; Adolph C. | Coral Springs | FL | N/A |
| N/A | | | |
| ASSIGNEE INFORMATION: | | | |
| NAME | CITY | STATE | ZIP CODE |
| COUNTRY | | | |
| Motorola, Inc. | Schaumburg | IL | N/A |
| 02 | | | |
| APPL-NO: | 08/ 578406 | | |
| DATE FILED: | December 26, 1995 | | |
| INT-CL: | [06] G01R031/308 | | |
| US-CL-ISSUED: | 324/750, 324/501 | | |
| US-CL-CURRENT: | 324/750, 324/501 | | |
| FIELD-OF-SEARCH: 324/750; 324/158.1 ; 324/639 ; 324/538 ; 324/501 | | | |
| REF-CITED: | | | |
| U.S. PATENT DOCUMENTS | | | |
| PAT-NO | ISSUE-DATE | PATENTEE-NAME | |
| US-CL | | | |
| 4876656 | October 1989 | Leicht et al. | |
| 364/491 | N/A | N/A | |
| 5218294 | June 1993 | Soberman | |
| 324/538 | N/A | N/A | |
| 5424633 | June 1995 | Soberman | |
| 324/538 | N/A | N/A | |

Date Text Image HTML FULL

| Document ID | Kind Codes | Source | Issue Date | Pages | Method |
|------------------|------------|--------|------------|-------|--------|
| 5714888 A | USPAT | USPAE | 19980203 | 10 | Metho |
| 203 US 5696372 A | USPAT | USPAE | 19971209 | 10 | High |
| 204 US 5675259 A | USPAT | USPAE | 19971007 | 15 | Metho |
| 205 US 5670886 A | USPAT | USPAE | 19970923 | 15 | Metho |
| 206 US 5640092 A | USPAT | USPAE | 19970617 | 13 | Electr |
| 207 US 5619997 A | USPAT | USPAE | 19970415 | 8 | Passel |
| 208 US 5608328 A | USPAT | USPAE | 19970304 | 14 | Metho |
| 209 US 5596150 A | USPAT | USPAE | 19970121 | 13 | Constr |

Date Text Image HTML FULL

United States Patent 5,714,888
Naujoks

Patent Number: 5,714,888
Date of Patent: Feb. 3, 1998

Primary Examiner-Ernest P. Kuzma
Attorney, Agent, or Firms-Andrew S. Poller

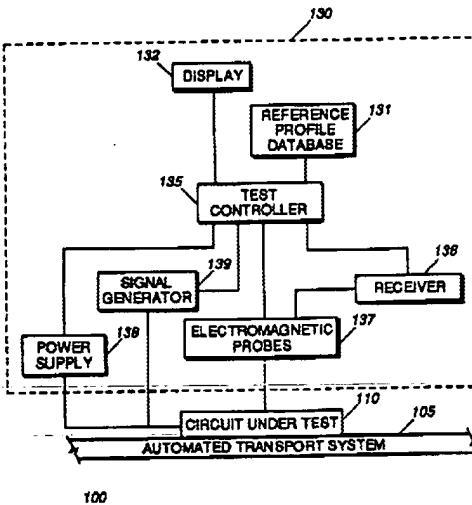
[57] ABSTRACT

A manufacturing environment (100) includes test equipment (130) that tests circuitry (110) for functional operation. An electromagnetic probe (137) is operated adjacent to a substrate having electronic circuitry to be tested (110). The electromagnetic probe is activated to directly stimulate a localized portion of the electronic circuitry with a wireless signal (130). Functional operation of the circuitry is determined by measuring the response of the electronic circuitry (130, 140). In one embodiment, an array of electromagnetic probes is operated to receive near-field electromagnetic emissions emanating from the circuitry. These emissions are measured as an electromagnetic profile generated for a portion of the circuitry (138). The electromagnetic profile is analyzed to determine functional operation of the circuitry (140).

[58] References Cited

| U.S. PATENT DOCUMENTS | | |
|-----------------------|---------|---------------|
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| 3,64/491 | 6/1993 | Soberman |
| 5,218,294 | 6/1993 | Soberman |
| 324/538 | 6/1993 | Soberman |
| 5,424,633 | 6/1995 | Soberman |
| 324/538 | 5/1996 | Soberman |

16 Claims, 4 Drawing Sheets



Date Text Image HTML FULL

US-PAT-NO: 6035951

DOCUMENT-IDENTIFIER: US 6035951 A

See image for Certificate of Correction

TITLE: System for tracking and/or guiding an underground
boring tool

----- KWIC -----

US Patent No. - PN (1):

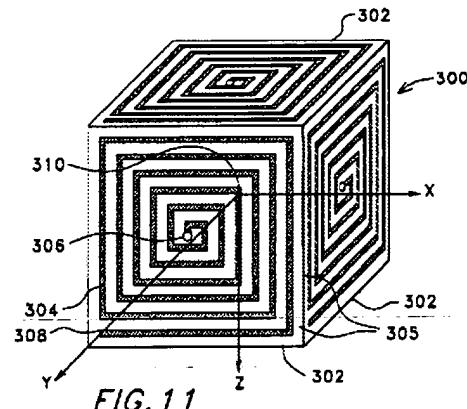
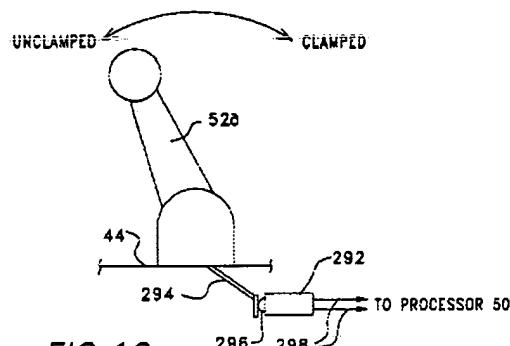
6035951

U.S. Patent

Mar. 14, 2000

Sheet 8 of 15

6,035,951



| | U | I | Document ID | Issue Date | Pages | Title |
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| 2 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | US 5065093 A | 19911112 | 15 | Inductive proximity sensor for electrical conductivity |
| 3 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | US 4495465 A | 19850122 | 15 | Method and apparatus for non-destructively permeable bodies using |
| 4 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | US 2921309 A | 19600112 | 3 | TEXT NOT AVAILABLE |
| 5 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | US 2532551 A | 19501205 | 5 | TEXT NOT AVAILABLE |

Details Text Image HTML Full

SIMULTANEOUS DETERMINATION OF VARIOUS PARAMETERS OF AN ASSOCIATED CYLINDRICAL TARGET

PUBN-DATE: March 20, 1997

INVENTOR-INFORMATION:

| | |
|-----------------------|---------------|
| NAME LE MINH QUANG | COUNTRY FR |
| PLACKO, DOMINIQUE | FR |

ASSIGNEE-INFORMATION:

| | |
|------------------|---------------|
| NAME SAGEM | COUNTRY FR |
| LE MINH QUANG | FR |
| PLACKO DOMINIQUE | FR |

APPL-NO: FR09601379

APPL-DATE: September 9, 1996

PRIORITY-DATA: FR09510605A (September 11, 1995)

INT-CL (IPC): G01R033/12, G01V003/10

BUR-CL (EPC): G01V003/10

ABSTRACT:

CHG DATE=19970502 STATUS=0>The cylindrical ~~object or specimen~~ comprising at least one circular cross-section cylindrical coil (2) associated to a core (1) with high magnetic permeability, is characterized in that the core (1) is a cylinder having a circular cross section, in that the coil (2) is fixed to a side face of the core and comprises a symmetry axis coaxial to the core face on which it is fixed, and in that the core (1) has a thickness (B) larger than the thickness (a) of the coil so that the magnetic field lines resulting from the excitation of the coil are substantially all of them included in the core.

Details Text Image HTML FULL

| | U | I | Document ID | Issue Date | Pages | Title |
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| 2 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | JP 61086662 A | 19860502 | 4 | APPARATUS FOR DETECTING CORONA |
| 3 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | WO 20080770 A1 | 20021017 | 16 | METHOD FOR MEASURING OF EDEMA |
| 4 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | WO 20020718 A1 | 20020718 | 31 | ELECTROMAGNETIC PROBE |
| 5 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | WO 0710518 A1 | 19970520 | 25 | CYLINDRICAL ELECTROMAGNETIC SENSOR FOR SIMULTANEOUS DETERMINATION OF VARIOUS PARAMETERS OF AN ASSOCIATED CYLINDRICAL TARGET |
| 6 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | US 20020109497/20020815 A | | 13 | Electromagnetic probe/detector plane with constant profile imp |

Details Text Image HTML Full

INTERNATIONAL SEARCH REPORT

Case ref Application No
PCT/FR 96/01379

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 G01R33/12 G01V3/10

According to International Patent Classification (IPC) or in both national classifications and IPC

B. FIELDS SEARCHED

Machine document retrieval (classification system followed by classification symbols)
IPC 6 G01R G01V H03K

D. DOCUMENTS CITED AS RELEVANT

Documentation searched other than classification in the order that such documents are recited in the field searched

E. ELECTRONIC DATA BASES SEARCHED DURING THE INTERNATIONAL SEARCH (Name of data base and, where practical, search terms used)

F. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Character of document, brief description, where appropriate, of the relevant passage | Reference to class No. |
|----------|--|------------------------|
| A | US 4 495 465 A (TOMAUOLO FRANK G ET AL) 22 January 1985 see column 3, line 63 - column 4, line 23; figure 3 | 1.2 |
| A | US 5 065 093 A (MAUTA HENDRIKUS C ET AL) 12 November 1991 see abstract | |
| A | IBM TECHNICAL DISCLOSURE BULLETIN, vol. 2, no. 5, February 1960, NEW YORK, US Pages 92-93, XP002005899 LAMOREAUX: "Core Testing Device, February 1960." see the whole document | 1.2 |

Further documents are listed in the continuation of this C. Patent family members are listed in annex

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- *'D' document relating to co-pending applications, etc., publications or other criteria
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*'G' later documents published after the international filing date but prior to priority date and not to conflict with the application but used to understand the principle or theory underlying the invention.

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Date of the actual completion of the international search: 28 October 1996

Date of mailing of the international search report: 30.11.96

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